



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)  
BOARD AND CODE ADMINISTRATION DIVISION

## NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION  
11805 SW 26 Street, Room 208  
T (786) 315-2590 F (786) 315-2599  
[www.miamidade.gov/economy](http://www.miamidade.gov/economy)

WinDoor, Inc.  
7500 Amsterdam Drive  
Orlando, FL 32832

### SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

**DESCRIPTION:** Series "9060 Thermally Broken" Outswing Aluminum Casement Window – L.M.I.

**APPROVAL DOCUMENT:** Drawing No. 08-01902, titled "9060 Casement Single & Twin Window - Large Missile Impact", sheets 1 through 13 of 13, dated 01/14/13, with revision F dated 07/13/15, prepared by manufacturer, signed and sealed by Luis R. Lomas, P.E. and dated 12/28/2015, bearing the Miami-Dade County Product Control Section Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

**MISSILE IMPACT RATING:** Large and Small Missile Impact Resistant

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA# 14-0305.03 and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by Jorge M. Plasencia, P.E.



*Jorge M. Plasencia*  
1/12/2016

NOA No. 15-0723.03  
Expiration Date: August 08, 2018  
Approval Date: January 21, 2016  
Page 1

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No. **08-01902**, titled "9060 Casement Single & Twin Window - Large Missile Impact", sheets 1 through 13 of 13, dated 01/14/13, with revision F dated 07/13/15, prepared by manufacturer, signed and sealed by Luis R. Lomas, P.E., dated 12/28/2015.

**B. TESTS**

1. Test reports on:
  - 1) Air Infiltration Test, per FBC, TAS 202-94
  - 2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
  - 3) Water Resistance Test, per FBC, TAS 202-94
  - 4) Large Missile Impact Test per FBC, TAS 201-94
  - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
  - 6) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94along with marked-up drawings and installation diagram of a thermally broken aluminum casement window, prepared by National Certified Testing Laboratories, Inc., Test Reports No. **NCTL-210-3832-2A** and **NCTL-210-3832-3A**, dated 01/10/13, signed and sealed by Gerard J. Ferrara, P.E.  
*(Submitted under previous NOA# 13-0129.25)*

**C. CALCULATIONS**

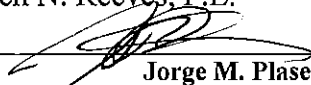
1. Anchor calculations and structural analysis, complying with **FBC-2014, 5<sup>th</sup> edition**, dated 12/28/2015, prepared, signed and sealed by Luis R. Lomas, P.E.
2. Glazing complies with **ASTM E1300-04**.

**D. QUALITY ASSURANCE**

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

**E. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. **14-0916.10** issued to **Kuraray America, Inc.** for their "**Kuraray Butacite® PVB Interlayer**" dated 04/25/15, expiring on 12/11/16.
2. Notice of Acceptance No. **14-0916.11** issued to **Kuraray America, Inc.** for their "**SentryGlas® (Clear and White) Glass Interlayers**" dated 06/25/2015, expiring on 07/04/2018.
3. Test Report No. **ATI-61261.01-106-18**, prepared by Architectural Testing, Inc., dated 12/13/05, revised dated 01/04/06, issued to Technoform, for their I-Strut Thermal Barrier plastic per **ASTM D635-03** "Standard Test Method for Rate of Burning and/ or Extent and Time of Burning of Plastics in a Horizontal Position" and **ASTM D2843-99** "Standard Test Method for the Density of Smoke from the Burning Decomposition of Plastics", signed and sealed by Allen N. Reeves, P.E.  
*(Submitted under previous NOA# 13-0129.25)*

  
Jorge M. Plasencia, P.E.  
Product Control Unit Supervisor  
NOA No. 15-0723.03  
Expiration Date: August 08, 2018  
Approval Date: January 21, 2016

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**E. MATERIAL CERTIFICATIONS (CONTINUED)**


4. Test Report No. **ETC-08-1043-20974.0**, prepared by ETC Laboratories, Inc., dated 07/01/08, issued to Technoform, for their I-Strut Thermal Barrier Plastic PA 66 GF25 per **ASTM D1929-96** (2001) "Standard Test Method for Ignition Properties of Plastics", signed by Gurijinder Dliami, Dir.  
*(Submitted under previous NOA# 13-0129.25)*
5. Test report No. **ETC-07-1043-19094.0**, prepared by ETC Laboratories, Inc., dated 02/18/08, issued to Technoform Bautech N.A., Inc., for their 18.6mm Flat I-Strut Thermal Barrier/ **ETC07021** per **ASTM D638-03** "4500 exposed Xenon Arch" & tensile strength **ASTM D638-03** "Tensile Strength" and per **ASTMD G26-96** "Practice for Operating Light-Exposure Apparatus (Xenon-Arc Type) With and Without Water for Exposure of Nonmetallic Materials", dated 03/06/08, signed and sealed by Joseph Labora Doldan, P.E.  
*(Submitted under previous NOA# 13-0129.25)*
6. Technoform Bautech N.A., Inc. Part No. **968600** 18.6mm Flat I-Strut Thermal Barrier Plastic PA 66 GF25 complying with **ASTM D3418-03** "Standard Test Method for Transition Temperatures and Enthalpies of Fusion and Crystallization of Polymers by Differential Scanning Calorimetric", **ASTM D792-03** "Standard Test Methods for Density and Specific Gravity (Relative Density) of Plastics by Displacement", **ASTM D2240-05** "Standard Test Method for Rubber Property—Durometer Hardness" and **ASTM D638-03** "4500 exposed Xenon Arch & Tensile Strength".  
*(Submitted under previous NOA# 13-0129.25)*

**F. STATEMENTS**

1. Statement letter of conformance, complying with **FBC-2014, 5<sup>th</sup> edition**, and of no financial interest, dated 07/10/2015, issued, signed and sealed by Luis R. Lomas, P.E.
2. Laboratory compliance letter for Test Reports No. **NCTL-210-3832-2A** and **NCTL-210-3832-3A**, issued by National Certified Testing Laboratories, Inc., dated 01/10/13, signed and sealed by Gerard J. Ferrara, P.E.  
*(Submitted under previous NOA# 13-0129.25)*

**G. OTHERS**

1. Notice of Acceptance No. **14-0305.03**, issued to WinDoor, Inc. for their Series "9060" Thermally Broken Aluminum Casement Window – L.M.I., approved on 10/23/14 and expiring on 08/08/18.

  
Jorge M. Plasencia, P.E.  
Product Control Unit Supervisor  
NOA No. 15-0723.03  
Expiration Date: August 08, 2018  
Approval Date: January 21, 2016

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
D	REVISED ANCHOR LOCATIONS AT JAMBS	01/06/14	R.L.
E	REVISED PER MD COMMENTS	09/22/14	R.L.
F	REVISED MASONRY ANCHORS	07/13/15	R.L.

NOTES:

- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE 2014 5th EDITION FLORIDA BUILDING CODE INCLUDING THE HVHZ.
- WOOD FRAMING, 2X WOOD BUCK, 1X WOOD BUCK AND MASONRY OPENING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING AND MASONRY OPENING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD. 2X WOOD BUCK TO BE PROPERLY SECURED.
- 1X BUCK OVER MASONRY/CONCRETE IS OPTIONAL.
- WHERE SHIM OR BUCK THICKNESS IS LESS THAN 1-1/2" WINDOW UNITS MUST BE ANCHORED THROUGH THE FRAME IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS. ANCHORS SHALL BE SECURELY FASTENED DIRECTLY INTO MASONRY, CONCRETE OR OTHER STRUCTURAL SUBSTRATE MATERIAL.
- WHERE WOOD BUCK THICKNESS IS 1-1/2" OR GREATER, BUCK SHALL BE SECURELY FASTENED TO MASONRY, CONCRETE OR OTHER STRUCTURAL SUBSTRATE. WINDOW UNITS MAY BE ANCHORED THROUGH FRAME TO SECURED WOOD BUCK IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS.
- WHERE 1X BUCK IS NOT USED DISSIMILAR MATERIALS MUST BE SEPARATED WITH APPROVED COATING OR MEMBRANE. SELECTION OF COATING OR MEMBRANE IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
- BUCKS SHALL EXTEND BEYOND WINDOW INTERIOR FACE SO THAT FULL FRAME SUPPORT IS PROVIDED.
- SHIM AS REQUIRED AT EACH ANCHOR LOCATION WITH LOAD BEARING SHIM. SHIM WHERE SPACE OF 1/16" OR GREATER OCCURS. MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4".
- SHIMS SHALL BE LOCATED, APPLIED AND MADE FROM MATERIALS CAPABLE OF SUSTAINING APPLICABLE LOADS.
- WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
- FRAME MATERIAL: ALUMINUM 6063-T6.
- UNITS MUST BE GLAZED PER ASTM E1300-04, SEE SHEET 4 FOR GLASS OPTIONS.
- APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.

- FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK USE #14 WOOD SCREWS WITH 5/8" MINIMUM EDGE DISTANCE AND SUFFICIENT LENGTH TO ACHIEVE A 1 7/16" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
- FOR ANCHORING INTO MASONRY/CONCRETE USE 1/4" CRETE-FLEX SS4 TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 2 1/2" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
- FOR ANCHORING INTO METAL STRUCTURE USE #14 SMS OR SELF DRILLING GRADE 5 SCREWS WITH 1" MINIMUM EDGE DISTANCE AND SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM BEYOND STRUCTURE INTERIOR WALL. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
- ALL FASTENERS TO BE CORROSION RESISTANT.
- INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BELOW:
  - WOOD - MINIMUM SPECIFIC GRAVITY OF G=0.42
  - CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 3,192 PSI.
  - MASONRY - STRENGTH CONFORMANCE TO ASTM C-90, GRADE N, TYPE 1 (OR GREATER).
  - METAL STRUCTURE: STEEL 18GA, 33KSI OR ALUMINUM 6063-T5 1/8" THICK MINIMUM

CORNER CONSTRUCTION:

- FRAME CORNERS ARE ASSEMBLED USING TWO CORNER KEYS: EXTERIOR KEY (ITEM 25) AND INTERIOR KEY (ITEM 26) SEE SHEET 6
- SASH CORNERS ARE ASSEMBLED USING TWO CORNER KEYS: EXTERIOR KEY (ITEM 25) AND INTERIOR KEY (ITEM 24) SEE SHEET 6

TABLE OF CONTENTS	
SHEET NO.	DESCRIPTION
1	NOTES
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5	GLAZING DETAILS AND B.O.M.
6	CROSS SECTIONS
7 - 10	INSTALLATION DETAILS
11	COMPONENTS
12 - 13	HARDWARE LAYOUTS

**PRODUCT REVISED**  
 as complying with the Florida  
 Building Code  
 Acceptance No. 15-0723.03  
 Expiration Date Aug 22, 2019  
 By *[Signature]*  
 Miami Dade Product Control

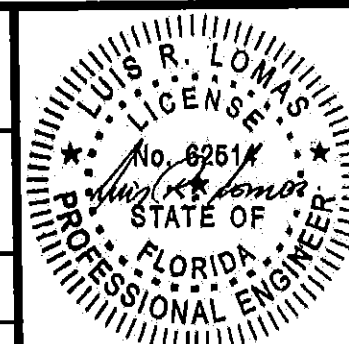
**WinDoor**  
 INCORPORATED

7500 AMSTERDAM DRIVE  
 ORLANDO, FL 32832  
 Phone: 407.481.8400  
 Fax: 407.481.0505  
 www.windoorinc.com

9060 CASEMENT SINGLE & TWIN WINDOW  
 LARGE MISSILE IMPACT  
 NOTES

DRAWN: V.L.	DWG NO. 08-01902	REV F
SCALE NTS	DATE 01/14/13	SHEET 1 OF 13

SIGNED: 12/28/2015



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
D	REVISED ANCHOR LOCATIONS AT JAMBS	01/06/14	R.L.
E	REVISED PER MD COMMENTS	09/22/14	R.L.
F	REVISED MASONRY ANCHORS	07/13/15	R.L.

CHART #1

Series 9060 Casement Single Window with SENTRYGLAS interlayer (Glazing A and B) Maximum design pressure capacity chart (psf)								
Frame Height (in)	Frame width (in)							
	24.0		30.0		36.0		37.0	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
30.0	100.0	150.0	100.0	150.0	100.0	150.0	100.0	150.0
36.0	100.0	150.0	100.0	150.0	100.0	150.0	100.0	150.0
42.0	100.0	150.0	100.0	150.0	100.0	150.0	100.0	150.0
48.0	100.0	150.0	100.0	150.0	100.0	150.0	100.0	150.0
54.0	100.0	150.0	100.0	150.0	100.0	150.0	100.0	150.0
60.0	100.0	150.0	100.0	150.0	100.0	150.0	100.0	150.0
66.0	100.0	150.0	100.0	150.0	100.0	150.0	100.0	150.0
72.0	100.0	150.0	100.0	150.0	100.0	149.8	100.0	146.9
78.0	100.0	150.0	100.0	150.0	100.0	145.9	100.0	143.1
84.0	100.0	150.0	100.0	150.0	100.0	142.8	100.0	140.0

CHART #3

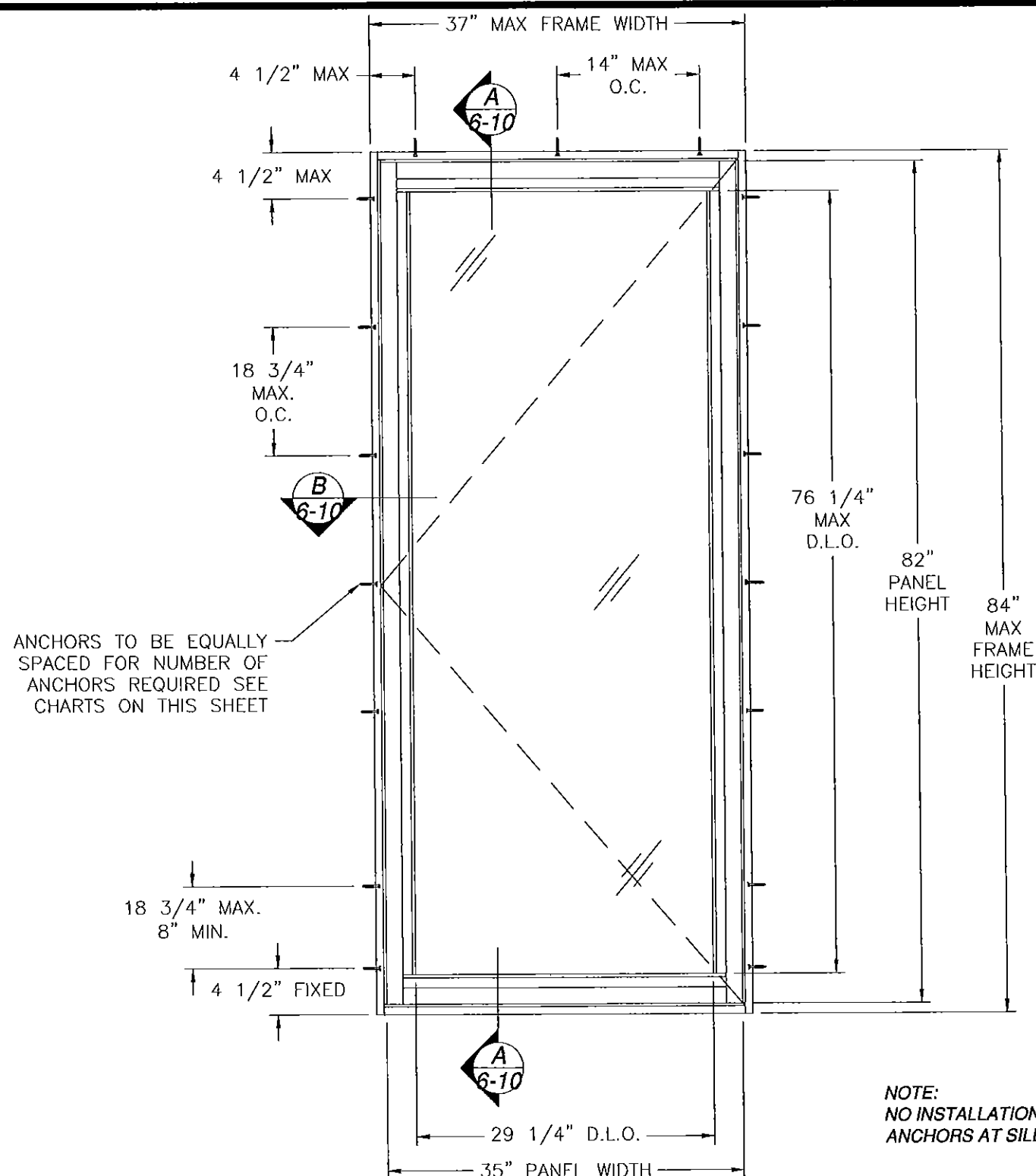
Series 9060 Casement Single Window with PVB interlayer (Glazing C and D) Maximum design pressure capacity chart (psf)								
Frame Height (in)	Frame width (in)							
	24.0		30.0		36.0		37.0	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
30.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
36.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
42.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
48.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
54.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
60.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
66.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
72.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
78.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
84.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0

CHART #2

Number of anchors locations required for single units glazed with SENTRYGLAS Interlayer (Glazing A and B)								
Frame Height (in)	Frame width (in)							
	24.0		30.0		36.0		37.0	
	Head	Jamb	Head	Jamb	Head	Jamb	Head	Jamb
30.0	3	3	3	3	3	3	3	3
36.0	3	3	3	3	3	3	3	3
42.0	3	3	3	3	3	3	3	4
48.0	3	4	3	4	3	4	3	4
54.0	3	4	3	4	3	5	3	5
60.0	3	4	3	4	3	5	3	5
66.0	3	5	3	5	3	6	3	6
72.0	3	5	3	5	3	6	3	6
78.0	3	5	3	6	3	6	3	7
84.0	3	5	3	6	3	7	3	7

CHART #4

Number of anchors locations required for single units glazed with PVB Interlayer (Glazing C and D)								
Frame Height (in)	Frame width (in)							
	24.0		30.0		36.0		37.0	
	Head	Jamb	Head	Jamb	Head	Jamb	Head	Jamb
30.0	3	3	3	3	3	3	3	3
36.0	3	3	3	3	3	3	3	3
42.0	3	3	3	3	3	3	3	3
48.0	3	4	3	4	3	4	3	4
54.0	3	4	3	4	3	4	3	4
60.0	3	4	3	4	3	4	3	4
66.0	3	5	3	5	3	5	3	5
72.0	3	5	3	5	3	5	3	5
78.0	3	5	3	5	3	5	3	6
84.0	3	5	3	5	3	5	3	6



NOTE:  
NO INSTALLATION  
ANCHORS AT SILL.

9060 CASEMENT WINDOW SINGLE  
EXTERIOR VIEW

DESIGN PRESSURE RATING	IMPACT RATING	DESIGN PRESSURE RATING	IMPACT RATING
+100.0/-140.0PSF	LARGE MISSILE IMPACT	±90.0PSF	LARGE MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4 AND HVHZ  
WITH GLAZING A AND B (SEE CHARTS 1 & 2)

MISSILE LEVEL D, WIND ZONE 4 AND HVHZ  
WITH GLAZING C AND D (SEE CHARTS 3 & 4)

SIGNED: 12/28/2015

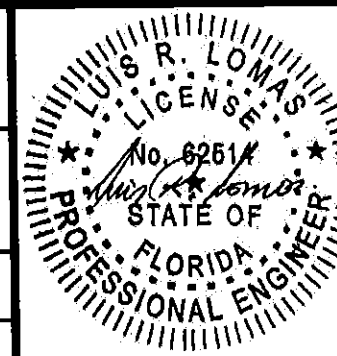
PRODUCT REVIEWED  
as complying with the Florida  
Building Code  
Acceptance No. 15-0723.03  
Expiration Date 8/8/2018  
By [Signature]  
Miami Dade Product Control

WinDoor  
INCORPORATED

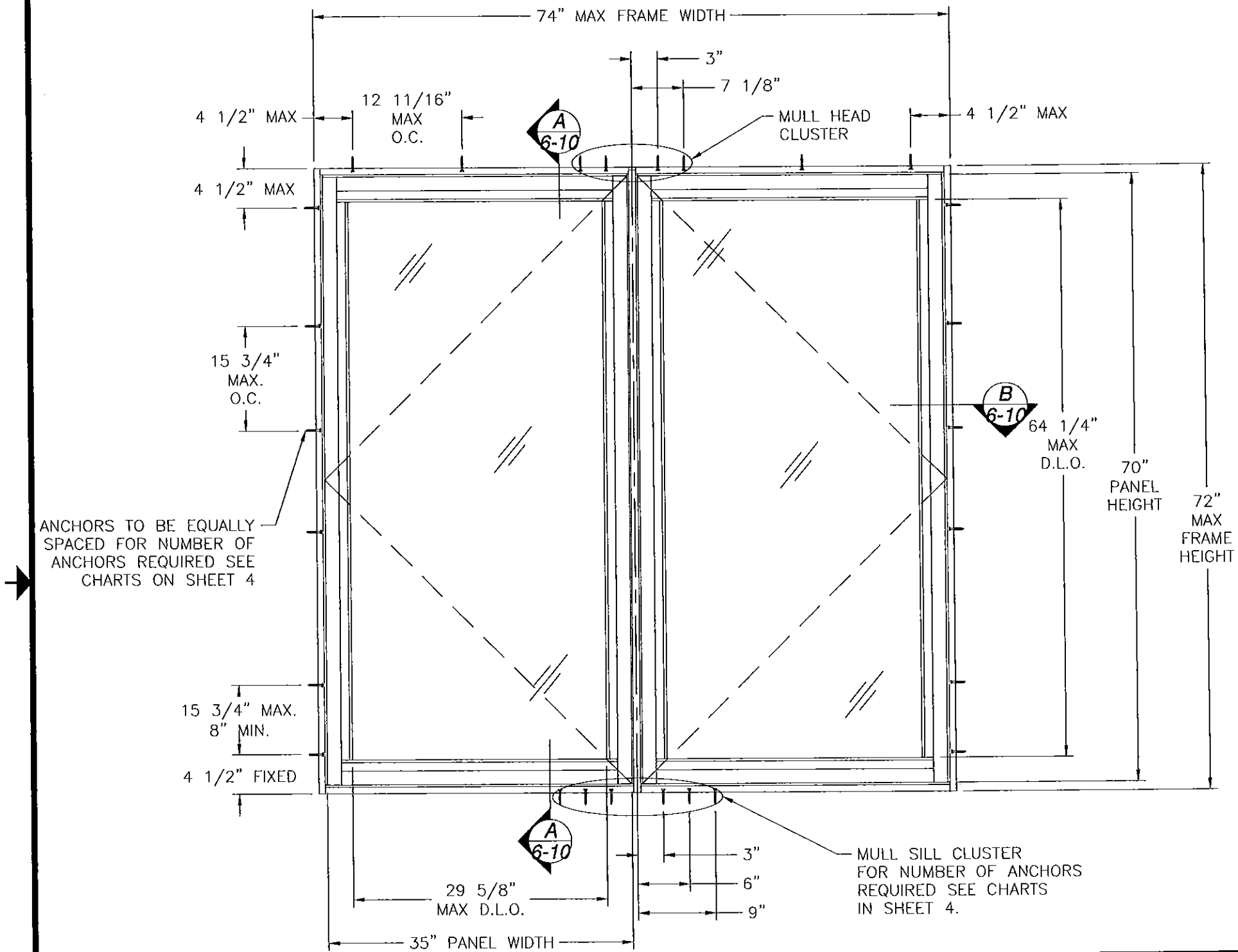
7500 AMSTERDAM DRIVE  
ORLANDO, FL 32832  
Phone: 407.481.8400  
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www.windoorinc.com

9060 CASEMENT SINGLE & TWIN WINDOW  
LARGE MISSILE IMPACT  
ELEVATIONS

DRAWN: V.L.	DWG NO. 08-01902	REV F
SCALE NTS	DATE 01/14/13	SHEET 2 OF 13



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
D	REVISED ANCHOR LOCATIONS AT JAMBS	01/06/14	R.L.
E	REVISED PER MD COMMENTS	09/22/14	R.L.
F	REVISED MASONRY ANCHORS	07/13/15	R.L.



9060 CASEMENT WINDOW TWIN  
EXTERIOR VIEW

DESIGN PRESSURE RATING	IMPACT RATING	DESIGN PRESSURE RATING	IMPACT RATING
+90.0PSF	LARGE MISSILE IMPACT	±90.0PSF	LARGE MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4 AND HVHZ  
WITH GLAZING A AND B (SEE CHARTS 5 AND 6)

MISSILE LEVEL D, WIND ZONE 4 AND HVHZ  
WITH GLAZING C AND D (SEE CHARTS 7 AND 8)

**PRODUCT REVISED**  
as complying with the Florida Building Code  
Acceptance No. **15-0723p3**  
Expiration Date **8/8/2018**  
By *[Signature]*  
Miami Dade Product Control

**WinDoor**  
INCORPORATED

7500 AMSTERDAM DRIVE  
ORLANDO, FL 32832  
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9060 CASEMENT SINGLE & TWIN WINDOW  
LARGE MISSILE IMPACT  
ELEVATIONS

DRAWN: V.L.	DWG NO. 08-01902	REV F
SCALE NTS	DATE 01/14/13	SHEET 3 OF 13

SIGNED: 12/28/2015

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
D	REVISED ANCHOR LOCATIONS AT JAMBS	01/06/14	R.L.
E	REVISED PER MD COMMENTS	09/22/14	R.L.
F	REVISED MASONRY ANCHORS	07/13/15	R.L.

CHART #5

Series 9060 Twin Window with SENTRYGLAS Interlayer (Glazing A and B)										
Maximum design pressure capacity chart (psf)										
Frame Height (in)	Frame Width (in)									
	48.0		56.0		64.0		72.0		74.0	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
30.0	100.0	120.0	100.0	120.0	100.0	120.0	100.0	120.0	100.0	120.0
36.0	100.0	120.0	100.0	120.0	100.0	120.0	100.0	120.0	100.0	120.0
42.0	100.0	120.0	100.0	120.0	100.0	120.0	100.0	120.0	100.0	120.0
48.0	100.0	120.0	100.0	120.0	100.0	120.0	100.0	120.0	100.0	120.0
54.0	100.0	120.0	100.0	120.0	100.0	120.0	100.0	120.0	100.0	120.0
60.0	100.0	120.0	100.0	120.0	100.0	120.0	100.0	117.8	100.0	116.0
66.0	100.0	120.0	100.0	120.0	100.0	111.3	100.0	103.1	100.0	101.4
72.0	100.0	120.0	100.0	109.7	99.4	99.4	91.6	91.6	90.0	90.0

CHART #6

Series 9060 Casement Twin Window with SENTRYGLAS Interlayer (Glazing A and B)																				
Number of anchor locations required																				
Frame Height (in)	Frame width (in)																			
	48.00				56.00				64.00				72.00				74.00			
	Head	Jamb	Mull head cluster	Mull sill cluster	Head	Jamb	Mull head cluster	Mull sill cluster	Head	Jamb	Mull head cluster	Mull sill cluster	Head	Jamb	Mull head cluster	Mull sill cluster	Head	Jamb	Mull head cluster	Mull sill cluster
30.00	2	3	4	4	4	3	4	4	4	3	4	4	4	3	4	4	4	3	4	4
36.00	2	3	4	4	4	3	4	4	4	3	4	4	4	3	4	4	4	3	4	4
42.00	2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
48.00	2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
54.00	2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
60.00	2	5	4	4	4	5	4	4	4	5	4	4	4	5	4	4	4	5	4	4
66.00	2	5	4	4	4	5	4	4	4	5	4	4	4	5	4	4	4	5	4	4
72.00	2	5	4	4	4	5	4	4	4	5	4	4	4	5	4	4	4	5	4	4


CHART #7

Series 9060 Twin Window with PVB Interlayer (Glazing C and D)										
Maximum design pressure capacity chart (psf)										
Frame Height (in)	Frame Width (in)									
	48.0		56.0		64.0		72.0		74.0	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
30.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
36.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
42.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
48.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
54.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
60.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
66.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
72.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0

CHART #8

Series 9060 Casement Twin Window with PVB Interlayer (Glazing C and D)																				
Number of anchor locations required																				
Frame Height (in)	Frame width (in)																			
	48.00				56.00				64.00				72.00				74.00			
	Head	Jamb	Mull head cluster	Mull sill cluster	Head	Jamb	Mull head cluster	Mull sill cluster	Head	Jamb	Mull head cluster	Mull sill cluster	Head	Jamb	Mull head cluster	Mull sill cluster	Head	Jamb	Mull head cluster	Mull sill cluster
30.00	2	3	4	4	4	3	4	4	4	3	4	4	4	3	4	4	4	3	4	4
36.00	2	3	4	4	4	3	4	4	4	3	4	4	4	3	4	4	4	3	4	4
42.00	2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
48.00	2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
54.00	2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
60.00	2	5	4	4	4	5	4	4	4	5	4	4	4	5	4	4	4	5	4	4
66.00	2	5	4	4	4	5	4	4	4	5	4	4	4	5	4	4	4	5	4	4
72.00	2	5	4	4	4	5	4	4	4	5	4	4	4	5	4	4	4	5	4	4

SIGNED: 12/28/2015

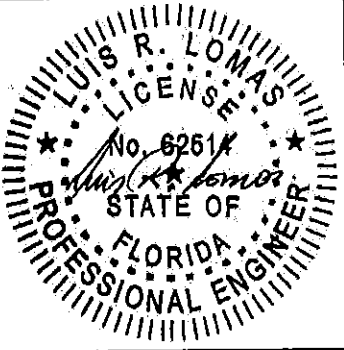
PRODUCT REVISED  
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Acceptance No. 15-0723-03  
Expiration Date 8/8/2018  
By   
Miami Dade Product Control

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9060 CASEMENT SINGLE & TWIN WINDOW  
LARGE MISSILE IMPACT  
ELEVATIONS

DRAWN: V.L. DWG NO. 08-01902 REV F  
SCALE NTS DATE 01/14/13 SHEET 4 OF 13



PARTS LIST					REVISIONS			
NO.	PART NUMBER	DESCRIPTION	MANUFACTURER	MATERIAL	REV	DESCRIPTION	DATE	APPROVED
1	9060A02	FLUSH FRAME ASSEMBLY	KEYMARK	ALUMINUM 6063-T6	D	REVISED ANCHOR LOCATIONS AT JAMBS	01/06/14	R.L.
2	9060A04	FLANGE FRAME ASSEMBLY	KEYMARK	ALUMINUM 6063-T6	E	REVISED PER MD COMMENTS	09/22/14	R.L.
3	9060A01	SASH ASSEMBLY	KEYMARK	ALUMINUM 6063-T6	F	REVISED MASONRY ANCHORS	07/13/15	R.L.
4	9060A03	COMMON POST	KEYMARK	ALUMINUM 6063-T6				
5	S51989	HORIZONTAL SCREEN ADAPTER	KEYMARK	ALUMINUM 6063-T6				
6	S51990	VERTICAL SCREEN ADAPTER	KEYMARK	ALUMINUM 6063-T6				
7	H50/0-55-0521	ENCORE DUAL ARM OPERATOR	TRUTH					
8	H50/0-55-0522P	ENCORE DUAL ARM OPERATOR	TRUTH					
9	12510.00.0520	STUD BRACKET LEFT HAND HINGE	TRUTH					
10	12511.00.0520	STUD BRACKET RIGHT HAND HINGE	TRUTH					
11	64.59.00.201	14.10 WASHABILITY HINGE	TRUTH					
12	24.30.XX.004	LOCK ASSEMBLY	TRUTH					
13	23050.00.0500	LOCK SUPPORT PLATE	TRUTH					
14	9000LH-HD	KEEPER LEFT HAND - HD	SELJAN					
15	9000RH-HD	KEEPER RIGHT HAND - HD	SELJAN					
16	11914	TIE BAR 6 POINT	TRUTH					
17	11914	TIE BAR 5 POINT	TRUTH					
18	12075P001	TIE BAR GUIDE	TRUTH					
19	900130	FRAME & SASH SNUBBER	ROTO					
20	H1579-SS-0520P	OPERATOR TRACK & SLIDER ASSY	TRUTH					
21	S46329	GLASS STOP 7/16" - 9/16"	KEYMARK	ALUMINUM 6063-T6				
22	S46084	GLASS STOP 1"	KEYMARK	ALUMINUM 6063-T6				
23	TP1051	#6 GLAZING VINYL	TEAM PLASTICS					
24	FS07438	INTERIOR SASH CORNER KEY	KEYMARK	ALUMINUM 6063-T6				
25	FS07440	SASH & FRAME CORNER KEY	KEYMARK	ALUMINUM 6063-T6				
26	FH07439	EXTERIOR FRAME CORNER KEY	KEYMARK	ALUMINUM 6063-T6				
27	FH07574	SCREEN FRAME	KEYMARK	ALUMINUM 6063-T6				
28	FH05838	SCREEN FLANGE FRAME	KEYMARK	ALUMINUM 6063-T6				
29	S10010-BL-2200R	SCREEN SPLINE	TEAM PLASTICS	VINYL				
30	SBV-XX-0600Z	SCREEN CLOTH	PHIFER	FEBERGLASS				
31	QEZ 376	Q-LON FOAM FLAP SEAL	SCHLEGEL					
32	54076	WEATHERSTRIP	LAUREN MFG.	EPDM SPONGE				
33	54578	WEATHERSTRIP	LAUREN MFG.	EPDM RUBBER				
34	121998	.187"x.200" FIN SEAL	ULTRA FAB					
35	131018-6	#8 X 3/8" PPH						
36		#8 x 1/2" PFH						
37		#8 X 1/2" PPH						
38	131118	#8 X 1 1/4" PPH						
39	131113	#10 X 1/2" PPH						
40		LOCK HANDLE						

PARTS LIST				
NO.	PART NUMBER	DESCRIPTION	MANUFACTURER	MATERIAL
41		#10 X 3/4" & #10 X 1 1/4" PFH		
42	131112	#10 X 3" PPH SELF-DRILLING		
43		HEAD & SILL INNER-SCREWS		
44	01-100-7755-002	NEOPRENE GLASS SHIMS	FRANK LOWE	DUROMETER 80
45	SIKAFLEX 552	POLYURETHANE	SIKA	SEALANT
46	968600	THERMAL STRUT	TECHNOFORM	POLYAMIDE

7/16"

3/16" HS

.090" SENTRYGLAS BY KURARAY

3/16" HS

EXTERIOR

INTERIOR

15/16" BITE

GLAZING DETAIL A

7/16"

3/16" HS

.090" PVB BUTACITE(R) BY KURARAY

3/16" HS

EXTERIOR

INTERIOR

15/16" BITE

GLAZING DETAIL C

1"

1/8" HS

.090" SENTRYGLAS BY KURARAY

1/8" HS

EXTERIOR

INTERIOR

15/16" BITE

GLAZING DETAIL B

1"

1/8" HS

.090" PVB BUTACITE(R) BY KURARAY

1/8" HS

EXTERIOR

INTERIOR

15/16" BITE

GLAZING DETAIL D

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9060 CASEMENT SINGLE & TWIN WINDOW  
LARGE MISSILE IMPACT  
GLAZING DETAILS AND B.O.M.

DRAWN: V.L.  
SCALE NTS  
DATE 01/14/13  
DWG NO. 08-01902  
SHEET 5 OF 13  
REV F

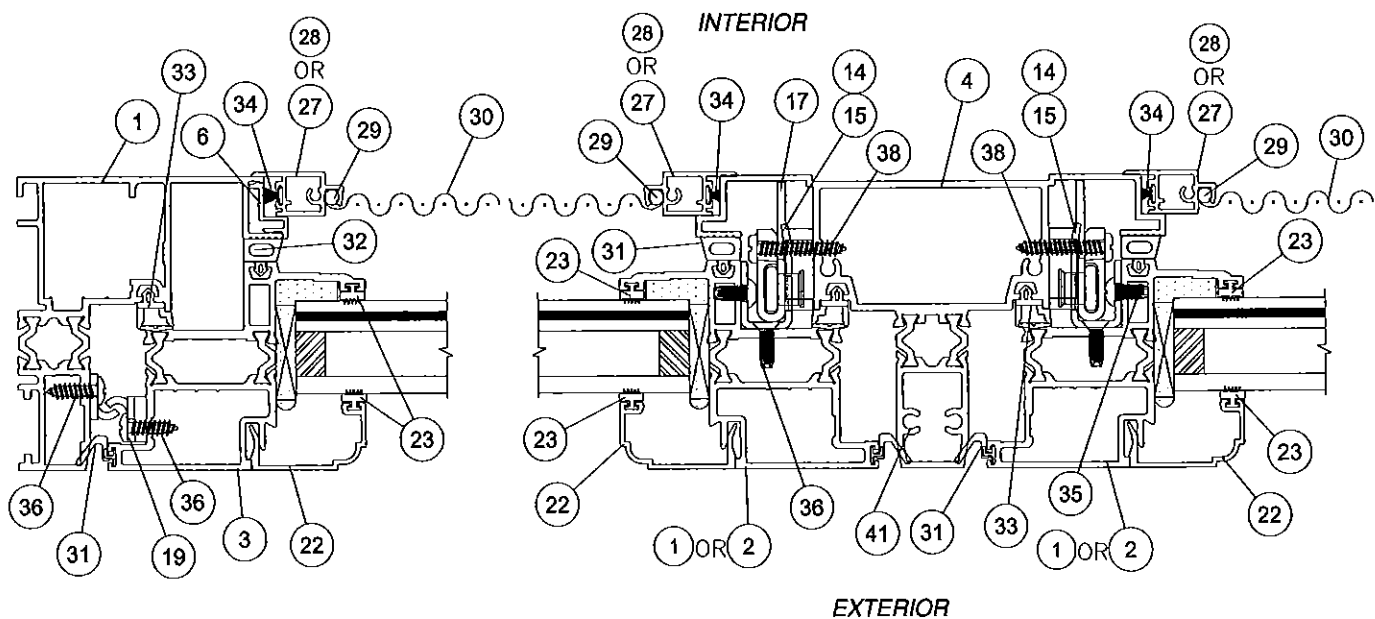
SIGNED: 12/28/2015

LUIS R. LOMAS  
LICENSED PROFESSIONAL ENGINEER  
No. 62514  
STATE OF FLORIDA

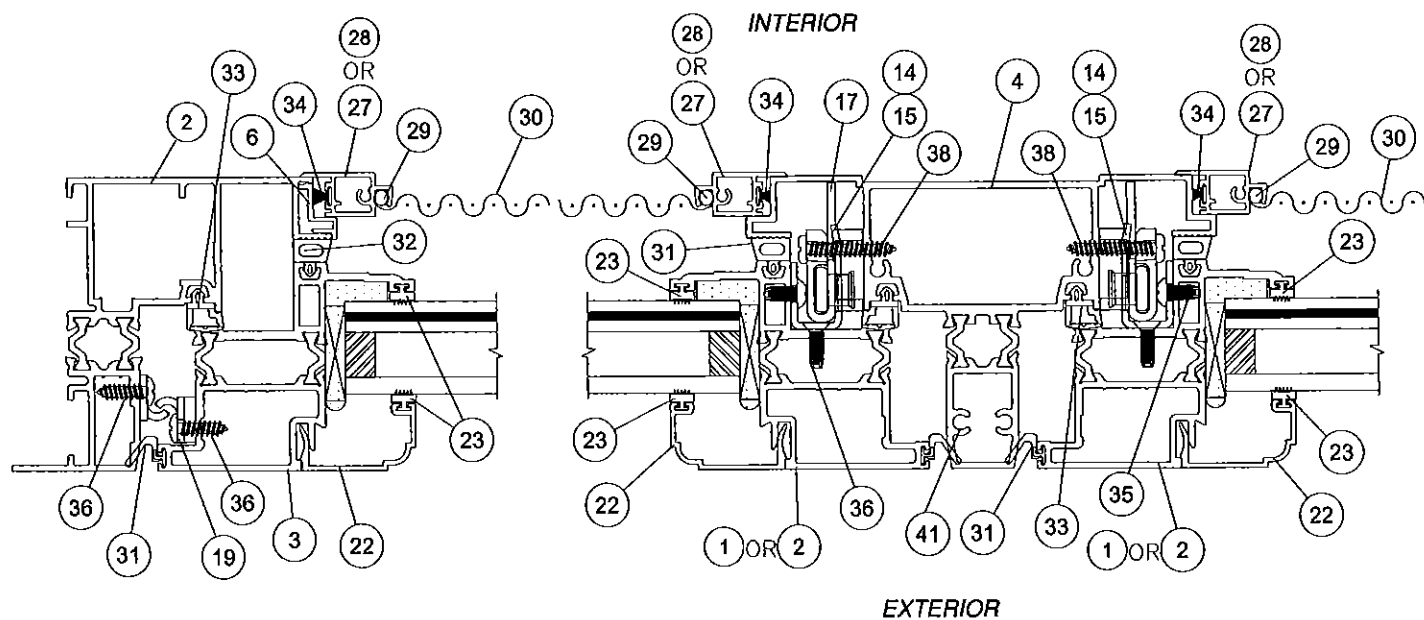


FOR ILLUSTRATION PURPOSES ONLY  
FOR INSTALLATION DETAILS REFER TO SHEETS 7 - 10

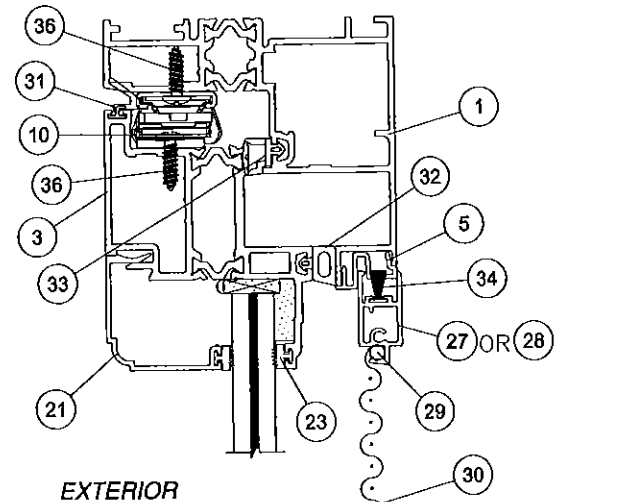
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E	REVISED PER MD COMMENTS	09/22/14	R.L.
F	REVISED MASONRY ANCHORS	07/13/15	R.L.



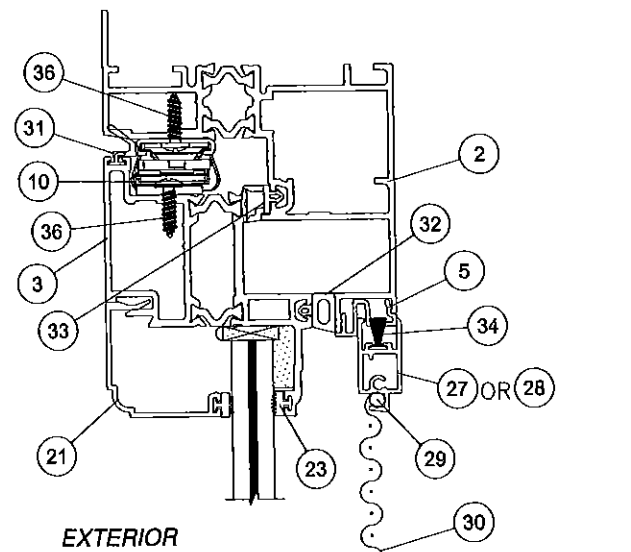
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6  
HORIZONTAL SECTION  
FLUSH FRAME



**B**  
6  
HORIZONTAL SECTION  
FLANGE FRAME



**A**  
6  
VERTICAL SECTION  
FLUSH FRAME



**A**  
6  
VERTICAL SECTION  
FLANGE FRAME

SIGNED: 12/28/2015

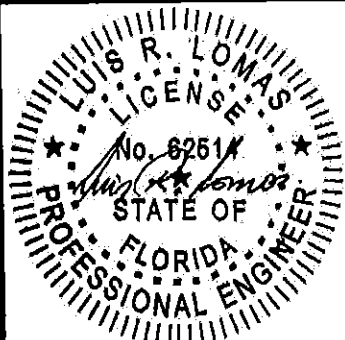
PRODUCT REVISED  
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Acceptance No. 15-0723-03  
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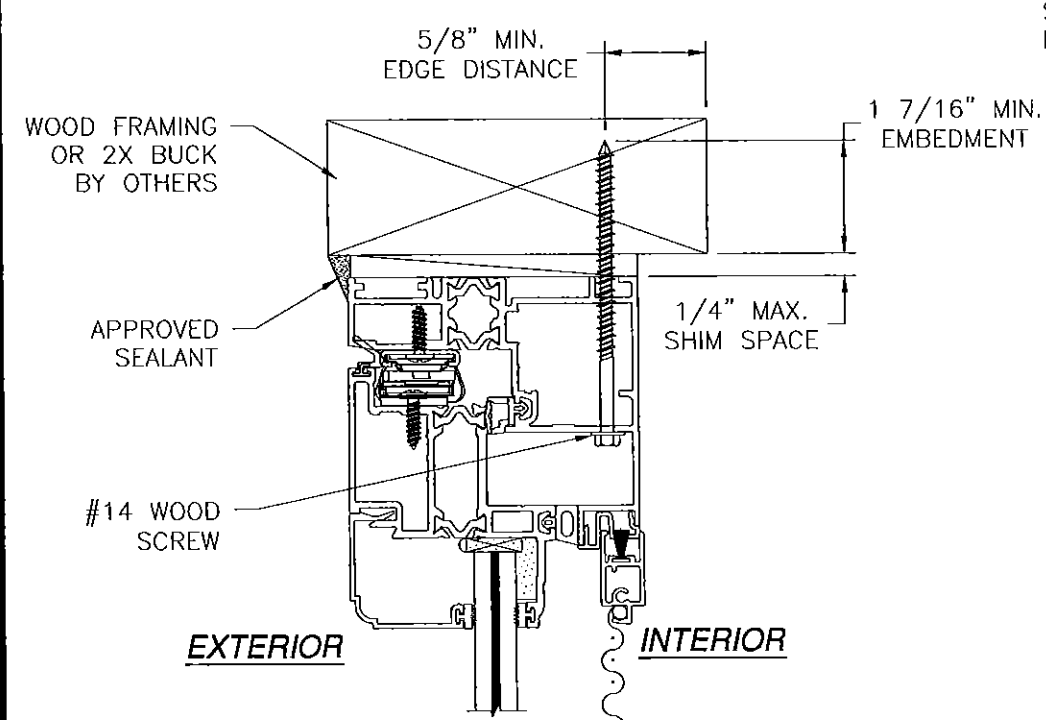
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9060 CASEMENT SINGLE & TWIN WINDOW  
LARGE MISSILE IMPACT  
CROSS SECTIONS

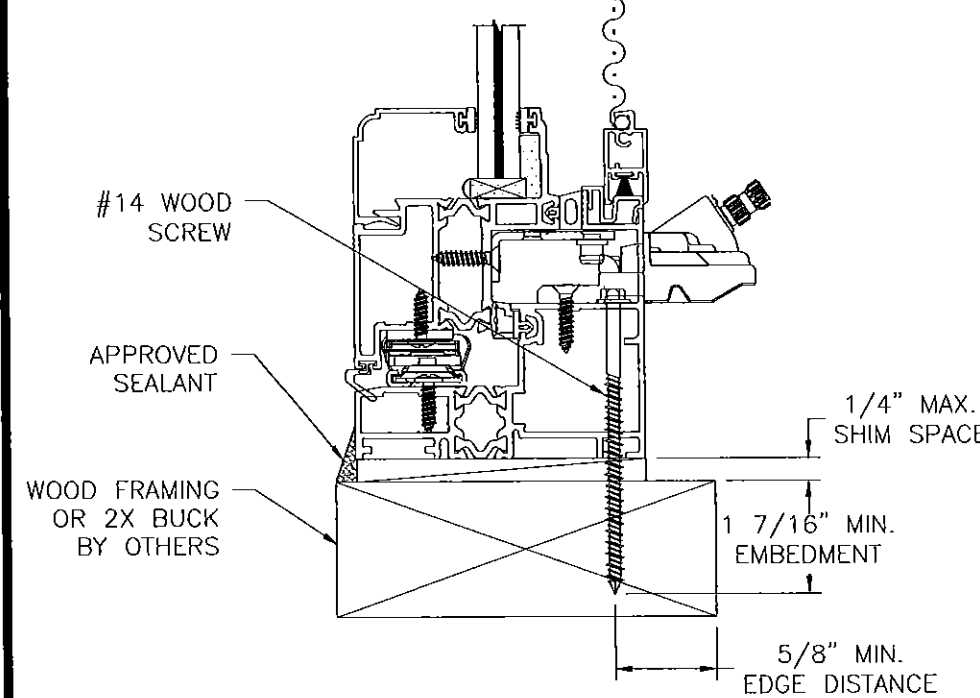
DRAWN: V.L.	DWG NO. 08-01902	REV F
SCALE NTS	DATE 01/14/13	SHEET 6 OF 13



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
D	REVISED ANCHOR LOCATIONS AT JAMBS	01/06/14	R.L.
E	REVISED PER MD COMMENTS	09/22/14	R.L.
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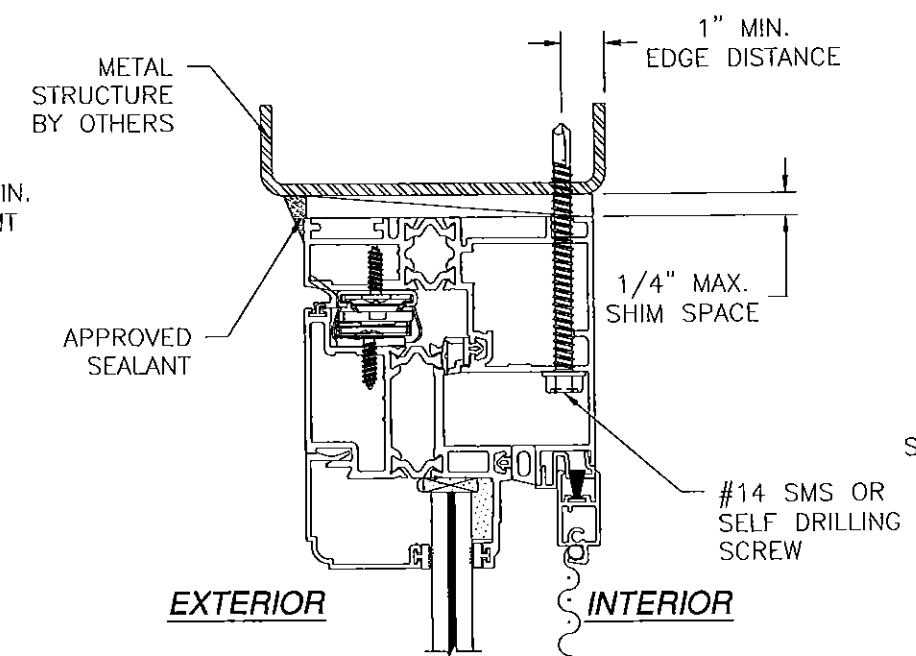


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**7** **VERTICAL CROSS SECTION**  
**WOOD FRAMING OR 2X BUCK INSTALLATION**  
REFER TO NOTES 2-7,17 AND 18 SHEET 1

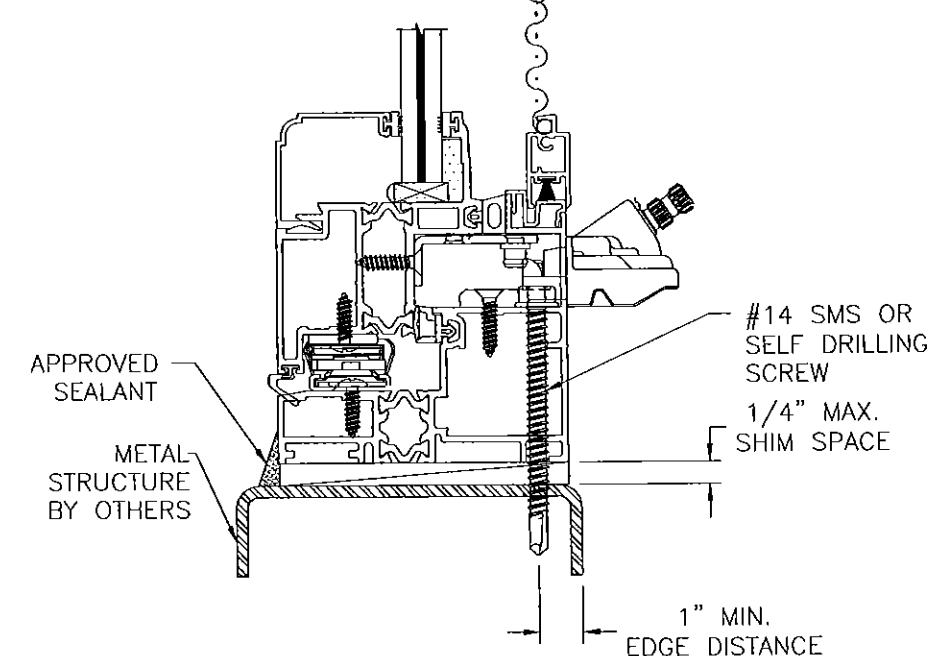


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**7** **VERTICAL CROSS SECTION**  
**WOOD FRAMING OR 2X BUCK INSTALLATION**  
REFER TO NOTES 2-7,17 AND 18 SHEET 1

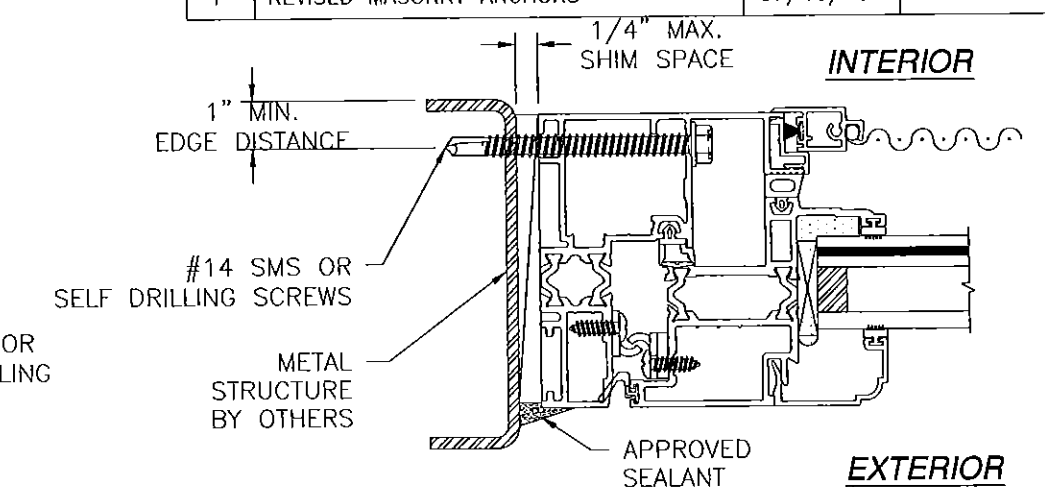
**NOTES:**  
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.  
2. SEALANT JOINT BY OTHERS TO BE IN ACCORDANCE WITH ASTM E2112.



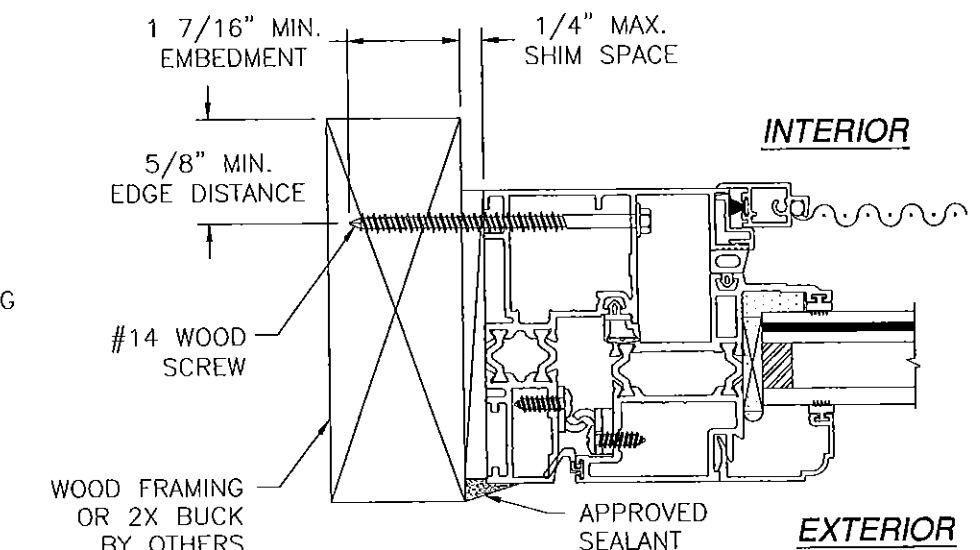
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**METAL STRUCTURE INSTALLATION**  
REFER TO NOTES 2-7,17 AND 18 SHEET 1



**A**  
**7** **VERTICAL CROSS SECTION**  
**METAL STRUCTURE INSTALLATION**  
REFER TO NOTES 2-7,17 AND 18 SHEET 1



**B**  
**7** **JAMB INSTALLATION DETAIL**  
**METAL STRUCTURE INSTALLATION**  
REFER TO NOTES 2-7,17 AND 18 SHEET 1



**B**  
**7** **JAMB INSTALLATION DETAIL**  
**WOOD FRAMING OR 2X BUCK INSTALLATION**  
REFER TO NOTES 2-7,17 AND 18 SHEET 1

SIGNED: 12/28/2015

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Acceptance No. 15-0723-03  
Expiration Date 8/8/2017

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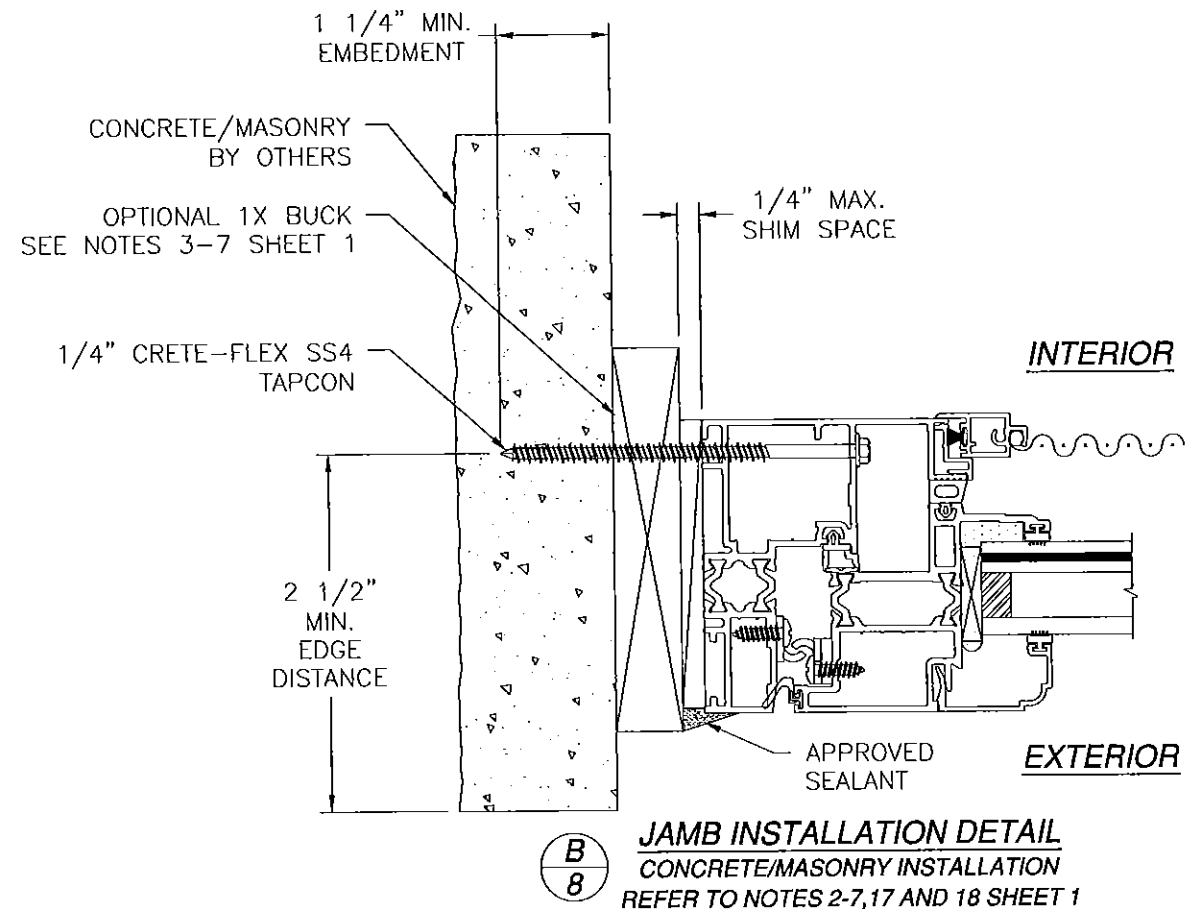
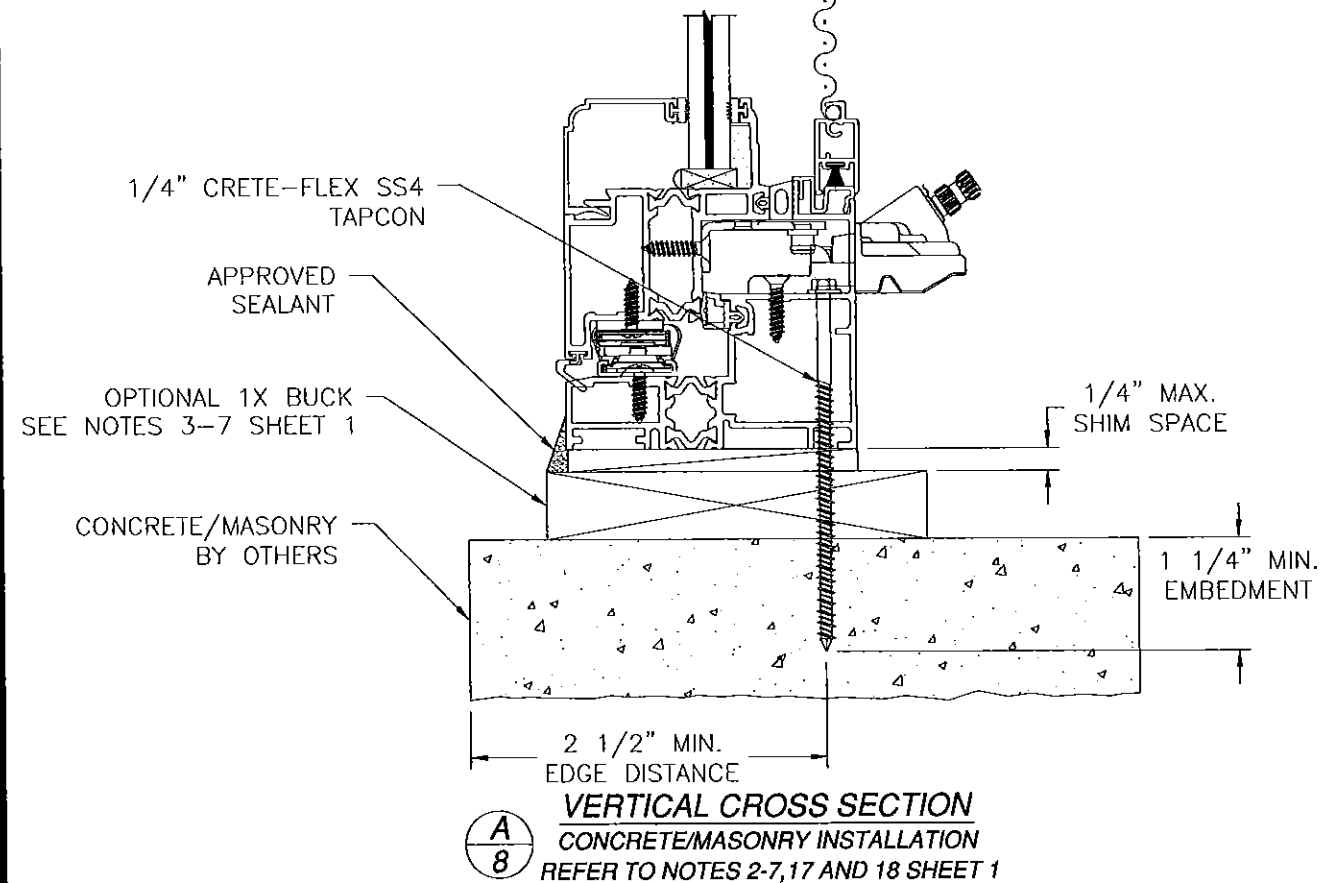
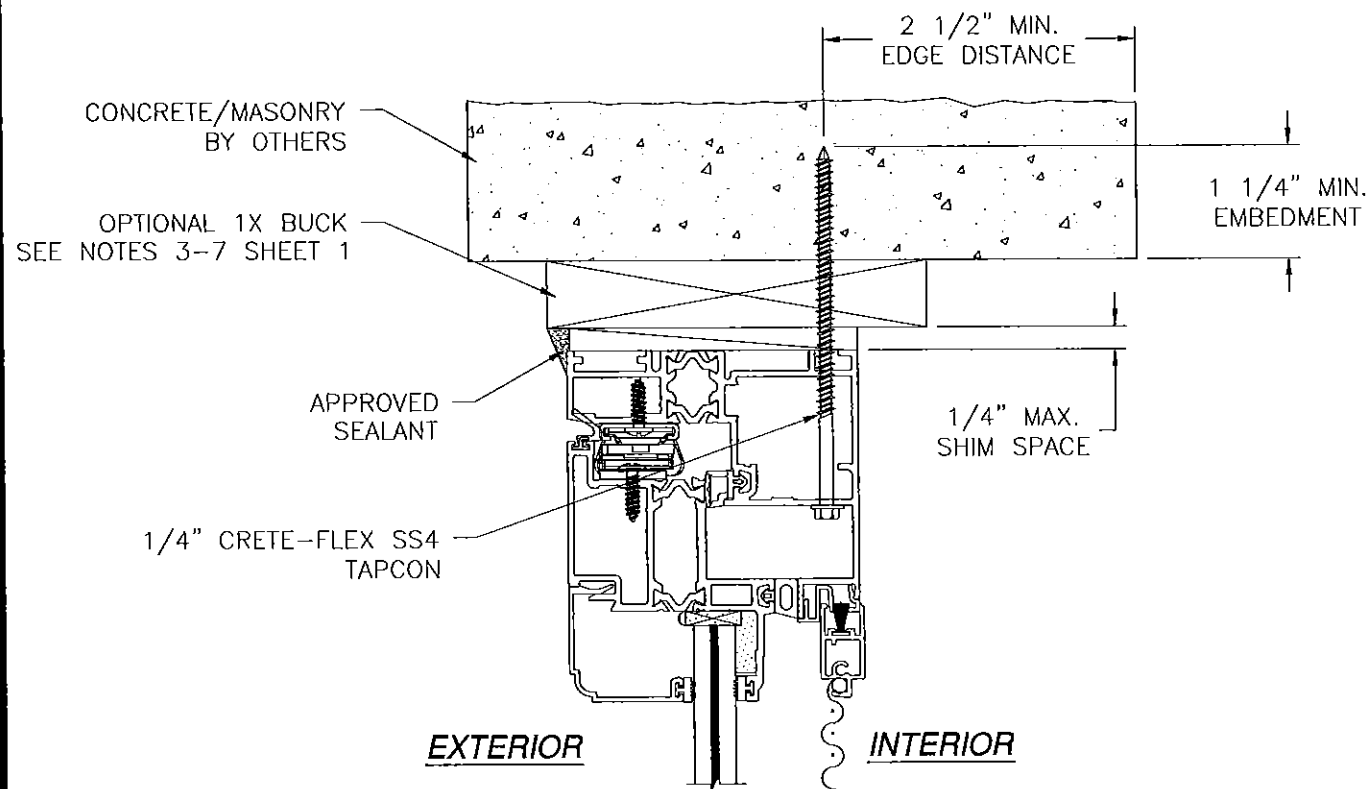
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9060 CASEMENT SINGLE & TWIN WINDOW  
LARGE MISSILE IMPACT  
FLUSH INSTALLATION DETAILS

DRAWN: V.L.	DWG NO. 08-01902	REV F
SCALE NTS	DATE 01/14/13	SHEET 7 OF 13

LUIS R. LOMAS  
LICENSE  
No. 62514  
STATE OF  
FLORIDA  
PROFESSIONAL ENGINEER

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
D	REVISED ANCHOR LOCATIONS AT JAMBS	01/06/14	R.L.
E	REVISED PER MD COMMENTS	09/22/14	R.L.
F	REVISED MASONRY ANCHORS	07/13/15	R.L.



- NOTES:
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
  2. SEALANT JOINT BY OTHERS TO BE IN ACCORDANCE WITH ASTM E2112.

SIGNED: 12/28/2015

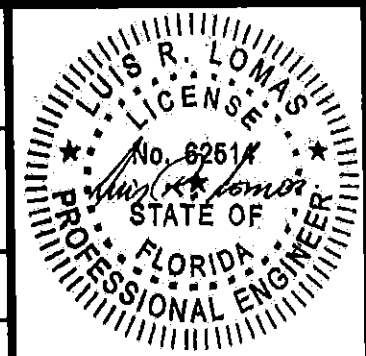
PRODUCT REVISED  
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Building Code  
Acceptance No. 15-0723.03  
Expiration Date 8/8/2018  
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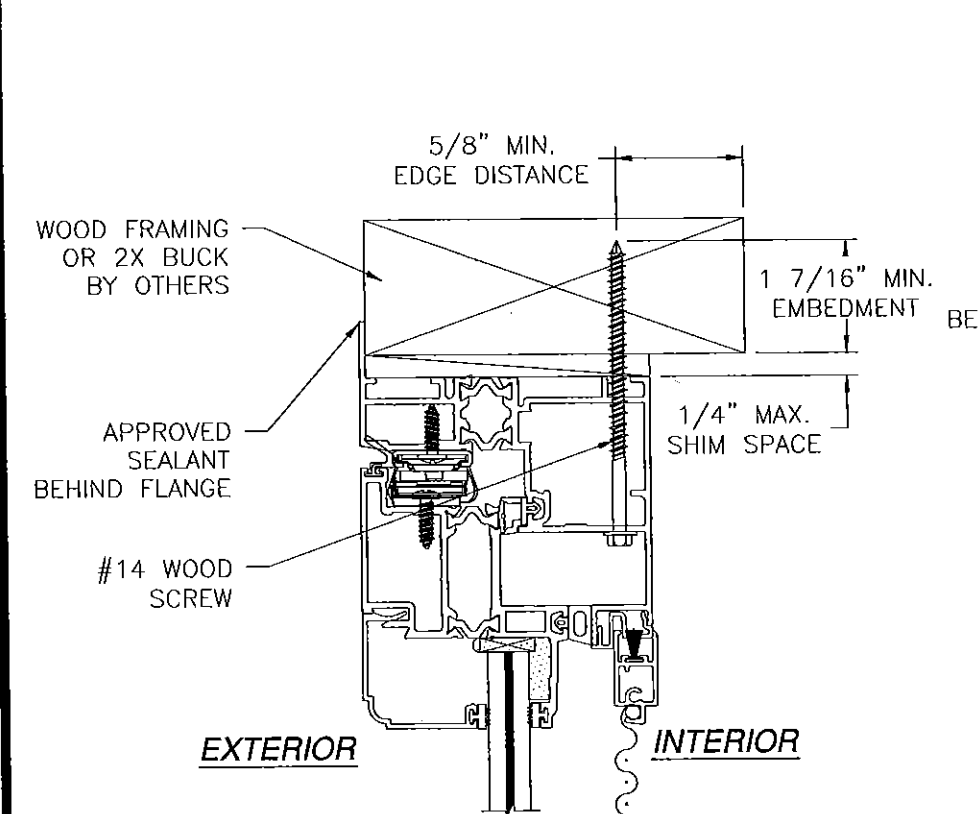
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FLUSH INSTALLATION DETAILS

DRAWN: V.L. DWG NO. 08-01902 REV F  
SCALE NTS DATE 01/14/13 SHEET 8 OF 13

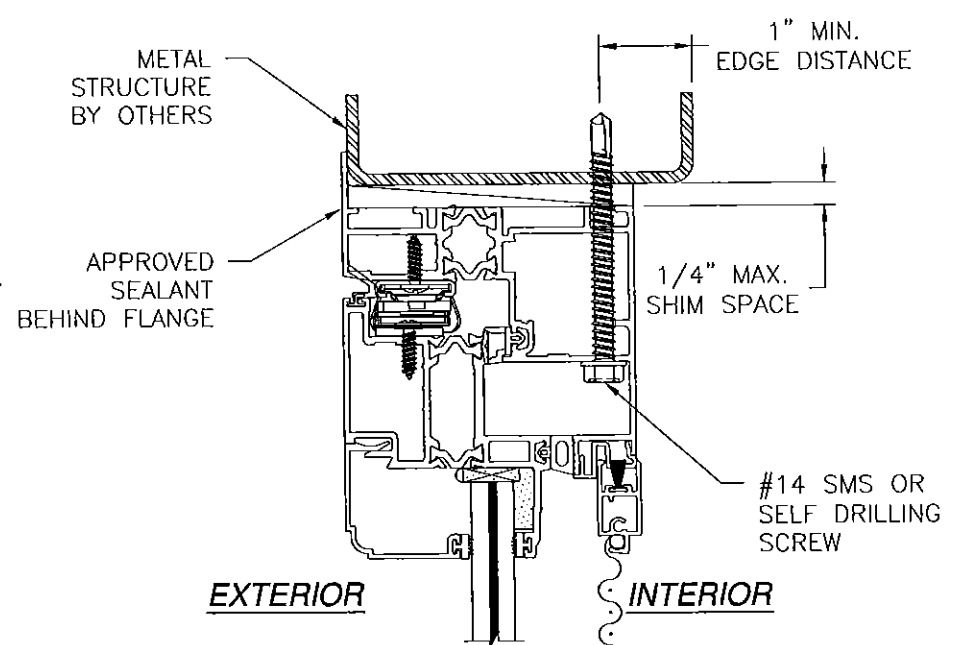


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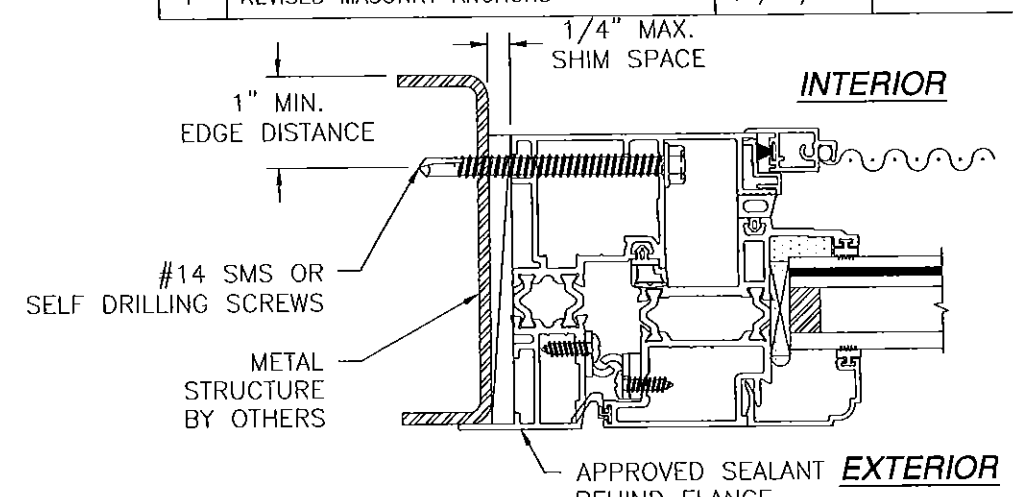


**A**  
**9** **VERTICAL CROSS SECTION**  
**WOOD FRAMING OR 2X BUCK INSTALLATION**  
REFER TO NOTES 2-7,17 AND 18 SHEET 1

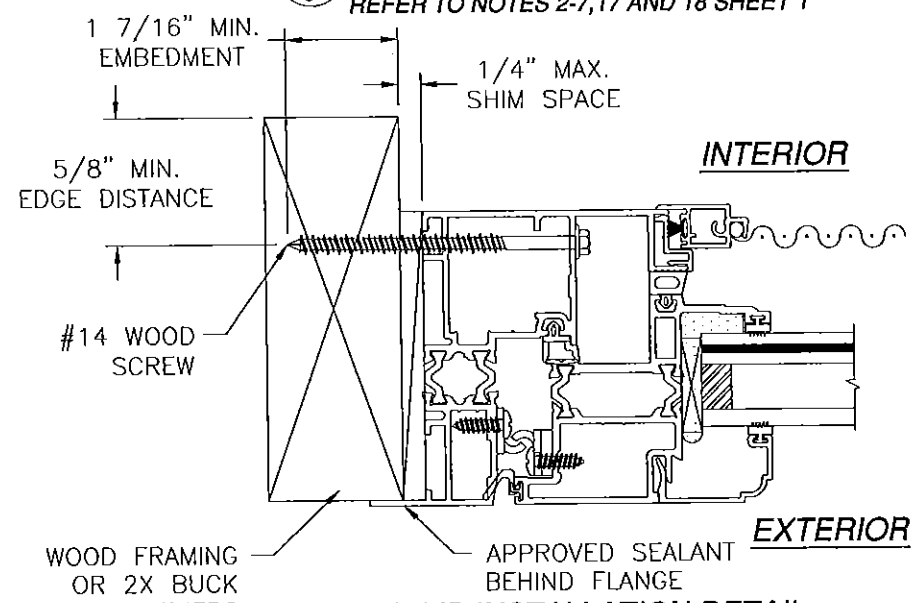
NOTES:  
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2. SEALANT JOINT BY OTHERS TO BE IN ACCORDANCE WITH ASTM E2112.



**A**  
**9** **VERTICAL CROSS SECTION**  
**METAL STRUCTURE INSTALLATION**  
REFER TO NOTES 2-7,17 AND 18 SHEET 1



**B**  
**9** **JAMB INSTALLATION DETAIL**  
**METAL STRUCTURE INSTALLATION**  
REFER TO NOTES 2-7,17 AND 18 SHEET 1



**B**  
**9** **JAMB INSTALLATION DETAIL**  
**WOOD FRAMING OR 2X BUCK INSTALLATION**  
REFER TO NOTES 2-7,17 AND 18 SHEET 1  
SIGNED: 12/28/2015

PRODUCT REVISED  
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Expiration Date 12/2018  
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9060 CASEMENT SINGLE & TWIN WINDOW

LARGE MISSILE IMPACT

FLANGE INSTALLATION DETAILS

DRAWN: V.L.

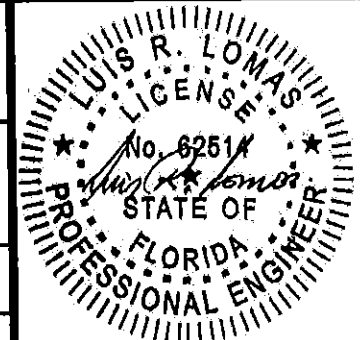
DWG NO. 08-01902

REV F

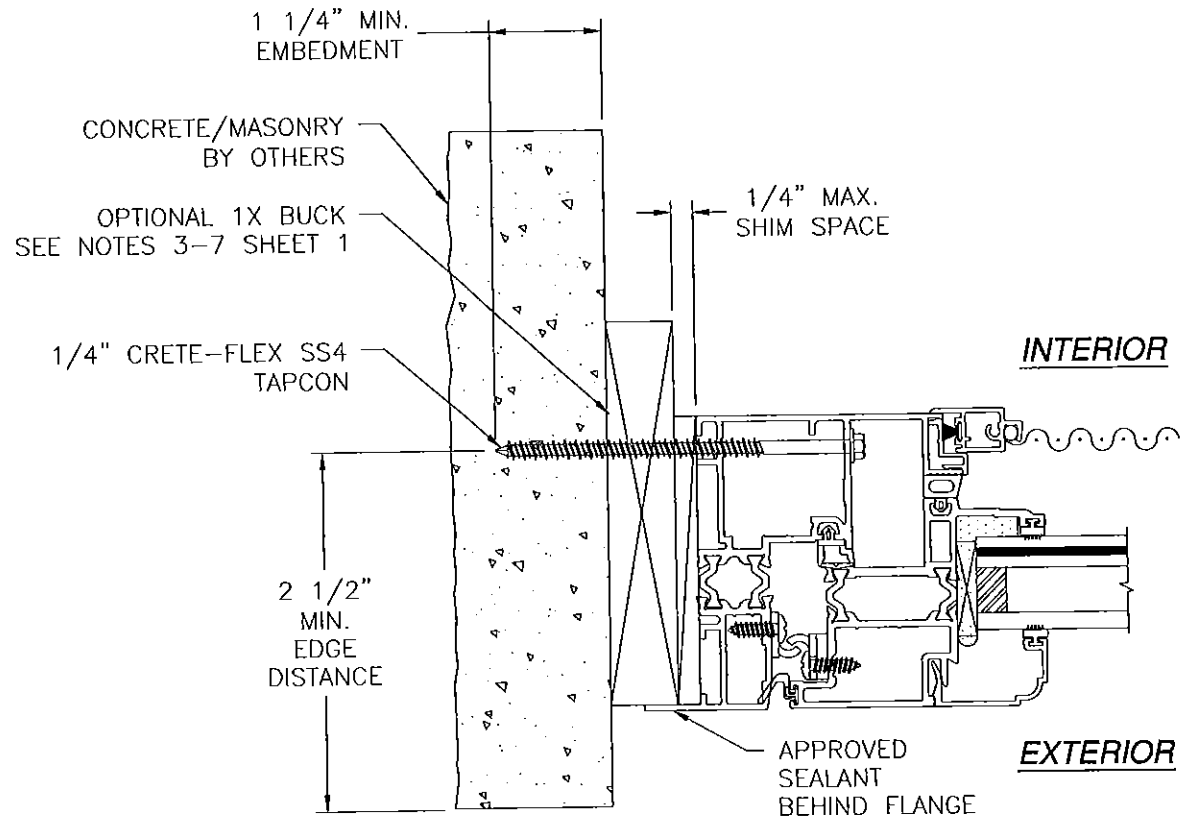
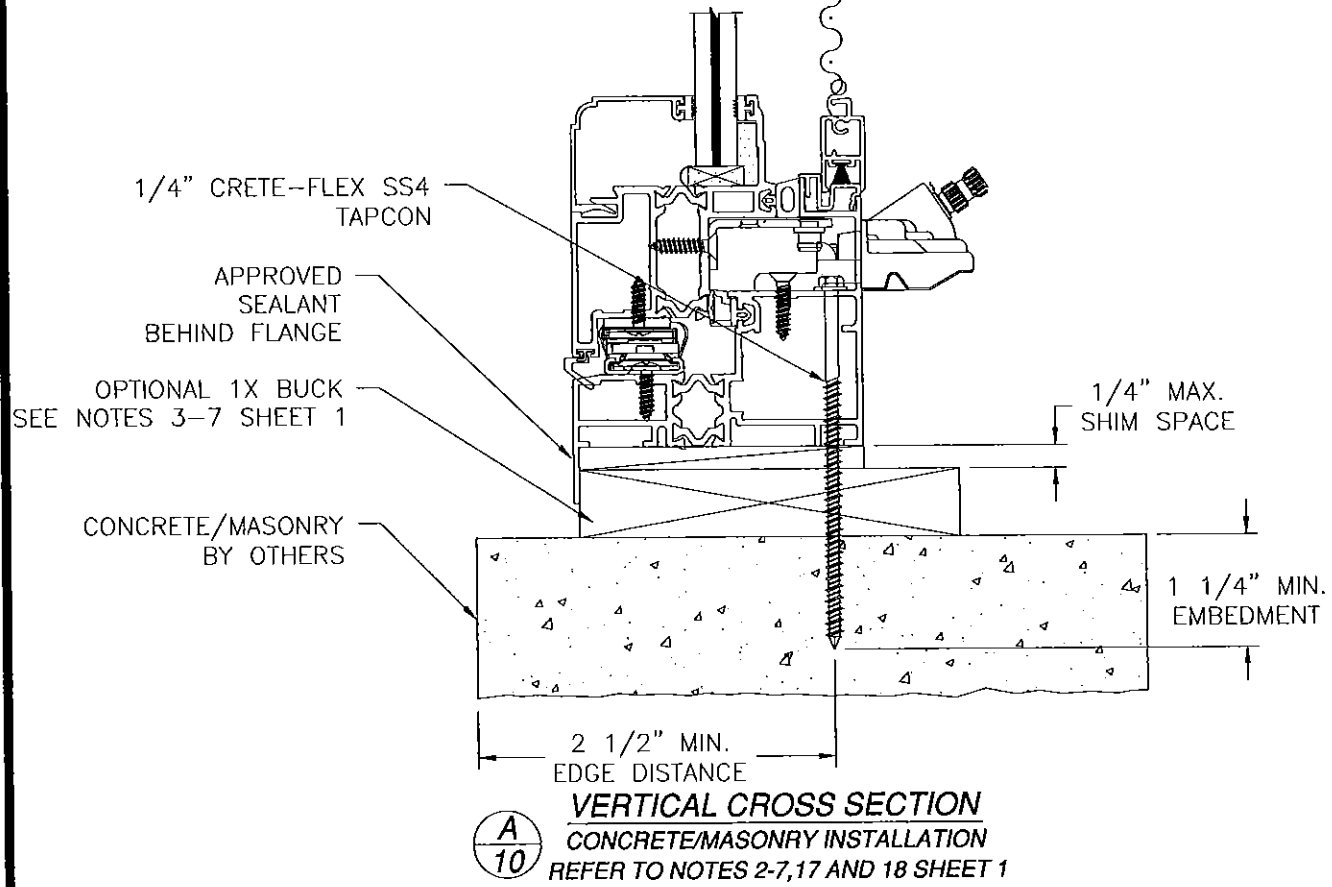
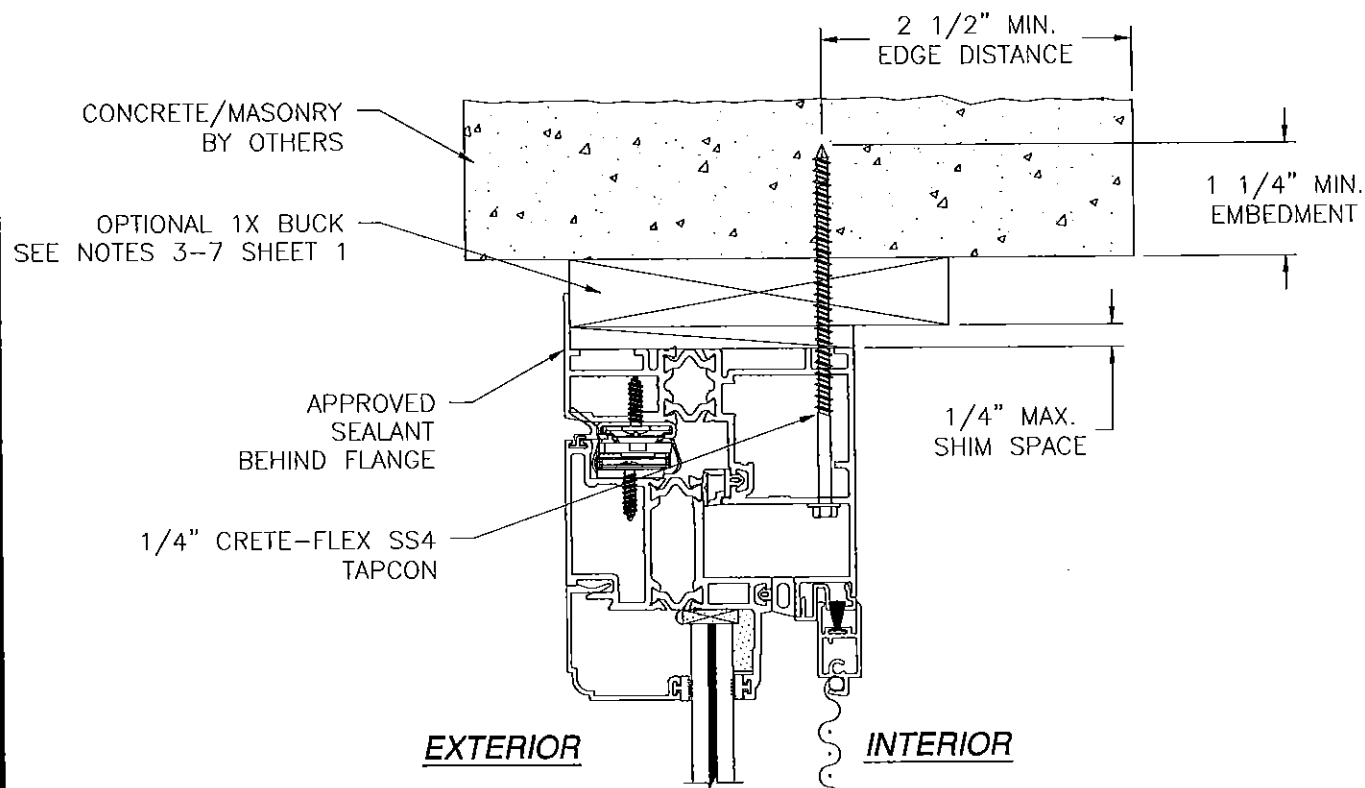
SCALE NTS

DATE 01/14/13

SHEET 9 OF 13



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
D	REVISED ANCHOR LOCATIONS AT JAMBS	01/06/14	R.L.
E	REVISED PER MD COMMENTS	09/22/14	R.L.
F	REVISED MASONRY ANCHORS	07/13/15	R.L.



**B**  
10  
**JAMB INSTALLATION DETAIL**  
CONCRETE/MASONRY INSTALLATION  
REFER TO NOTES 2-7,17 AND 18 SHEET 1

- NOTES:**
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
  2. SEALANT JOINT BY OTHERS TO BE IN ACCORDANCE WITH ASTM E2112.

SIGNED: 12/28/2015

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Expiration Date 2/8/2018

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Miami Dade Product Control

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9060 CASEMENT SINGLE & TWIN WINDOW  
LARGE MISSILE IMPACT  
FLANGE INSTALLATION DETAILS

DRAWN: V.L.  
SCALE NTS

DWG NO. 08-01902  
DATE 01/14/13

REV F  
SHEET 10 OF 13

**LUIS R. LOMAS**  
No. 82514  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
D	REVISED ANCHOR LOCATIONS AT JAMBS	01/06/14	R.L.
E	REVISED PER MD COMMENTS	09/22/14	R.L.
F	REVISED MASONRY ANCHORS	07/13/15	R.L.

① **FRAME**  
ALUMINUM 6063-T6 .065" THICK

② **FLANGE FRAME**  
ALUMINUM 6063-T6 .065" THICK

③ **SASH ASSEMBLY**  
ALUMINUM 6063-T6 .065" THICK

④ **COMMON POST**  
ALUMINUM 6063-T6 .065" THICK

②① **GLASS STOP**  
ALUMINUM 6063-T6 .065" THICK

②② **GLASS STOP**  
ALUMINUM 6063-T6 .065" THICK

②③ **GLAZING VINYL**  
PVC 80 DUROMETER

③① **FLAP SEAL**  
FOAM

③② **WEATHERSTRIP**  
EPDM 70 DUROMETER

③③ **WEATHERSTRIP**  
EPDM 75 DUROMETER

④⑥ **THERMAL STRUT**  
NYLON POLYAMIDE .070" THICK  
TENSILE STRENGTH 10,390 PSI

②④ ②⑤ ②⑤ ②⑥

**CORNER DETAILS**

FRAME JAMB SASH JAMB SASH SILL FRAME SILL

**CORNER ASSEMBLY**

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
Acceptance No. 15-0723.03  
Expiration Date 8/3/2018

By *[Signature]*  
Miami Dade Product Control

**WinDoor**  
INCORPORATED

7500 AMSTERDAM DRIVE  
ORLANDO, FL 32832  
Phone: 407.481.8400  
Fax: 407.481.0505  
www.windoorinc.com

9060 CASEMENT SINGLE & TWIN WINDOW  
LARGE MISSILE IMPACT  
COMPONENTS

SIGNED: 12/28/2015

**LUIS R. LOMAS**  
No. 62514  
STATE OF  
FLORIDA  
PROFESSIONAL ENGINEER

DRAWN: V.L.

SCALE NTS

DWG NO. 08-01902

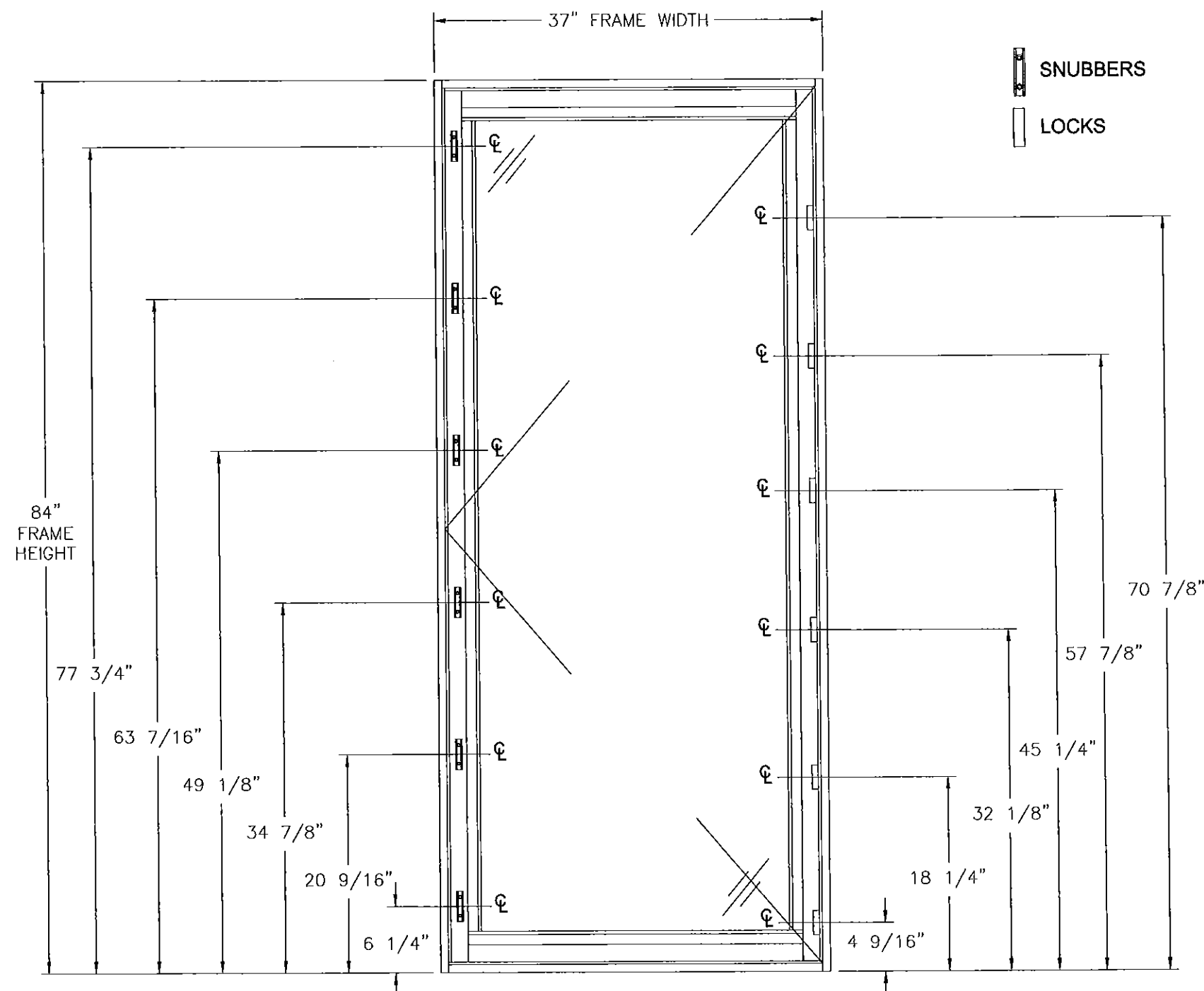
DATE 01/14/13

REV F



SHEET 11 OF 13

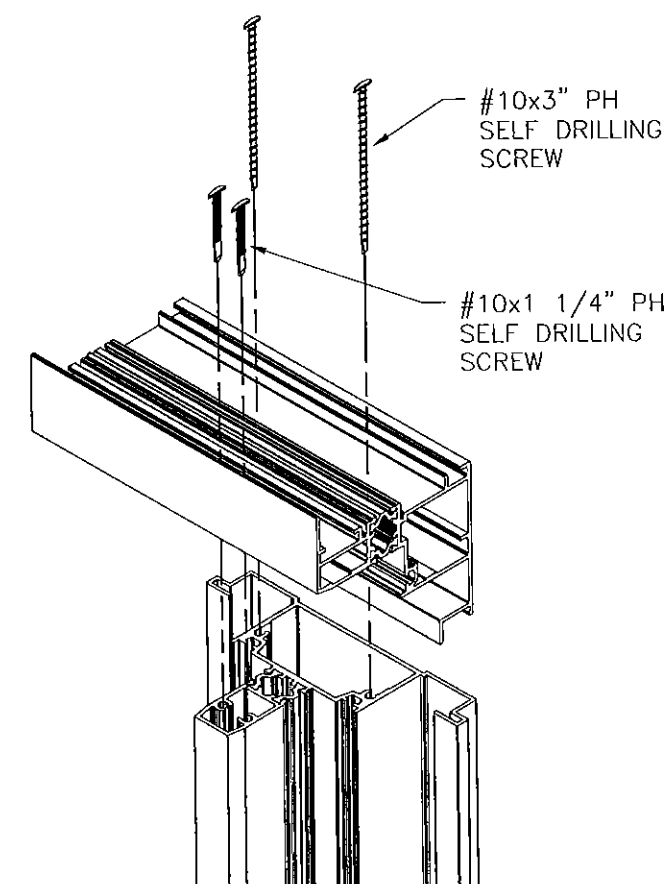
REVISIONS

REV	DESCRIPTION	DATE	APPROVED
D	REVISED ANCHOR LOCATIONS AT JAMBS	01/06/14	R.L.
E	REVISED PER MD COMMENTS	09/22/14	R.L.
F	REVISED MASONRY ANCHORS	07/13/15	R.L.




SINGLE UNIT LOCK AND SNUBBER LOCATIONS

 SNUBBERS  
 LOCKS



COMMON POST ATTACHMENT DETAIL

SIGNED: 12/28/2015

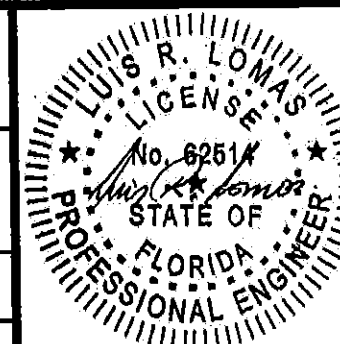
**PRODUCT REVIEWED**  
 as complying with the Florida  
 Building Code  
 Acceptance No. 15-0723.03  
 Expiration Date 12/18/2018  
 By   
 Miami Dade Product Control

**WinDoor**  
 INCORPORATED



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 ORLANDO, FL 32832  
 Phone: 407.481.8400  
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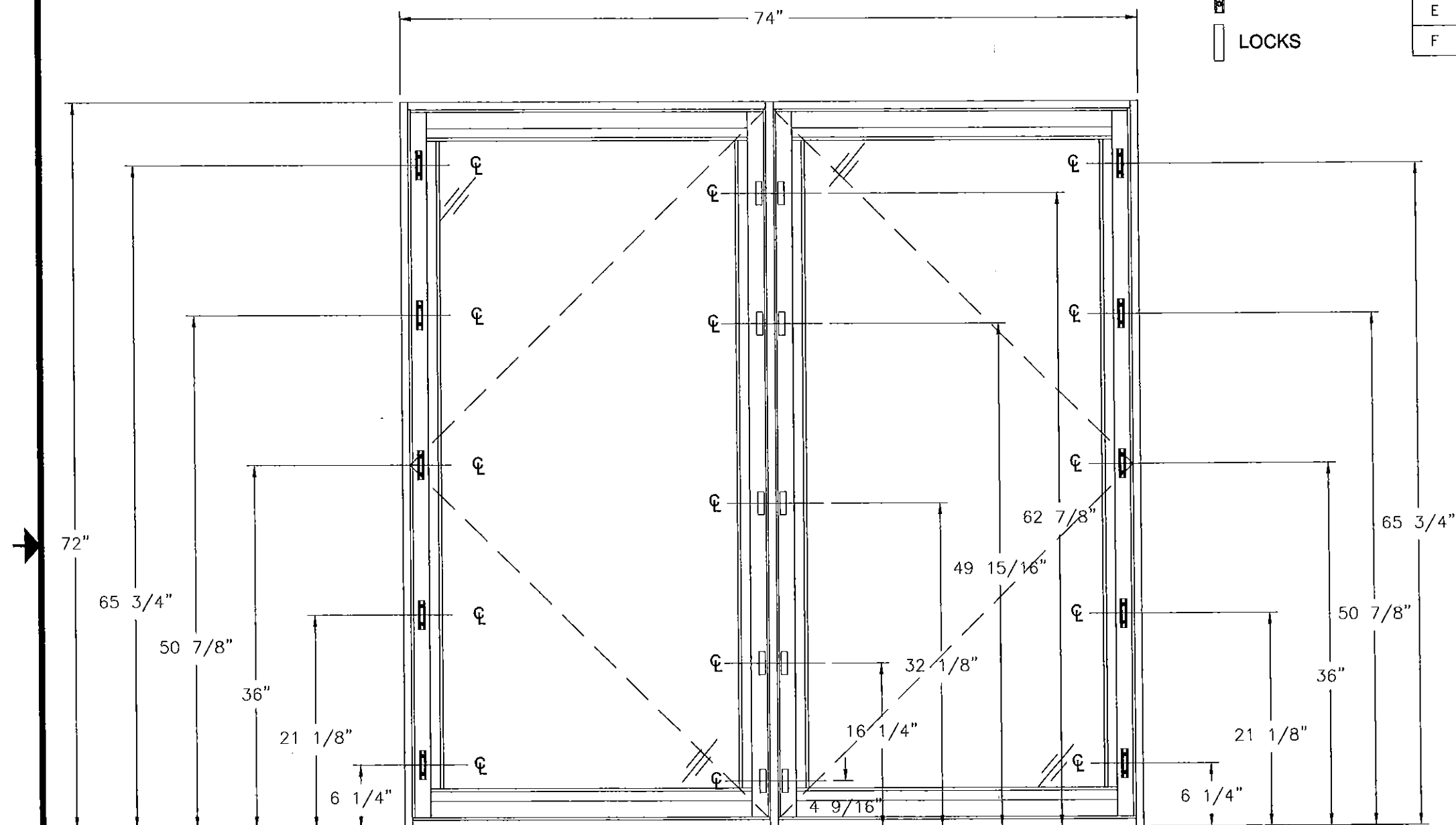
9060 CASEMENT SINGLE & TWIN WINDOW  
 LARGE MISSILE IMPACT  
 HARDWARE LAYOUT & POST ATTACHMENT DETAILS

DRAWN: V.L. DWG NO. 08-01902 REV F  
 SCALE NTS DATE 01/14/13 SHEET 12 OF 13




REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
D	REVISED ANCHOR LOCATIONS AT JAMBS	01/06/14	R.L.
E	REVISED PER MD COMMENTS	09/22/14	R.L.
F	REVISED MASONRY ANCHORS	07/13/15	R.L.

 **SNUBBERS**  
 **LOCKS**



**TWIN UNIT LOCKS AND  
SNUBBERS LOCATIONS**

SIGNED: 12/28/2015

**PRODUCT REVISED**  
 as complying with the Florida  
 Building Code  
 Acceptance No. 15-0723.03  
 Expiration Date 8/8/2018  
 By   
 Miami Dade Product Control

**WinDoor**  
 INCORPORATED

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9060 CASEMENT SINGLE & TWIN WINDOW  
 LARGE MISSILE IMPACT  
 HARDWARE LAYOUTS

DRAWN: V.L.	DWG NO. 08-01902	REV F
SCALE NTS	DATE 01/14/13	SHEET 13 OF 13

